

LIST OF LIQUID HAZARDOUS MATERIALS - POISONOUS BY INHALATION' (LHM-PBI) (Rev/4)
(Also known as the "List of PIH Liquids")

September 25, 2000
(Supersedes Rev/3; 6/1/95)

Note: List of PIH Gases on Follows this List

ID. NO.	MATERIAL	LC50 (ppm)	LCLo (ppm)	NOTE	VP (psig) 70/115/130EF	NOTE	RTECS	HZ	ERG Guide #	ERG Evac. Table
UN 1541	Acetone cyanohydrin, stabilized	--	126	R*	13200		OD9275	B	55	Yes
UN 1092	Acrolein, inhibited	25	--	D	289000		AS1050	A	30	Yes
UN 1093	Acrylonitrile, inhibited				(Deleted...LC50 >1000 ppm)					
^-- --	Aldicarb and Dichloromethane solutions	22	--	A*	346000		--	A	--	No
UN 1098	Allyl alcohol	253	--	R*	26000		BA5075	B	57	Yes
UN 2334	Allylamine	590	--	R*	261000		BA5425	B	28	Yes
^UN 1722	Allyl chloroformate	61	--	C	20400		LQ5775	B	57	Yes
^UN 1545	Allyl isothiocyanate, stabilized				(Deleted...SVC:LC50 <10:1)					
^-- --	2-Amino-2,3-dimethylbutyronitrile in Toluene (80:20 wt/wt mixture)	88	--	A	14000		--	B	--	No
-- --	2-Amino-2-methylbutanenitrile	110	--	A	1150		--	B	--	No
-- --	2-Amino-2-methylpropanenitrile	112	--	A	6520		--	B	--	No
UN 1560	Arsenic trichloride	--	56	R*m	11500		CG1750	B	55	Yes
UN 2692	Boron tribromide	--	--	1	73700		ED7400	B	59	Yes
UN 1744	Bromine	113	--	R*m	237000		EF9100	A	59	Yes
^UN 1744	Bromine solutions	--	--	14	--		EF9100	+	59	Yes
UN 1745	Bromine pentafluoride	--	50	eS	453000		EF9350	A	44	Yes
^UN 1746	Bromine trifluoride	50	--	eS	9200		EF9360	B	44	Yes
UN 1569	Bromoacetone	--	95	R*h	11900		UC0525	B	55	Yes
^-- --	1-Bromo-2-fluoroethane	300	--	AC*	137000		--	B	--	No
-- --	tert-Butylarsine	140	--	C*	164000	e	--	A	--	No
^UN 2743	n-Butyl chloroformate	--	--	1	9870		LQ5890	B	57	Yes
^NA 2742	sec-Butyl chloroformate	323	--	A	10500		--	B	57	Yes
^UN 2485	n-Butyl isocyanate	105	--	C	13900		NQ8250	B	57	Yes
UN 2484	tert-Butyl isocyanate	22	--	A	19700		NQ8300	A	57	Yes
^UN 1695	Chloroacetone, stabilized	262	--	R	41900		UC0700	B	59	Yes
^UN 2668	Chloroacetonitrile	--	500	R*	13200		AL8225	B	57	Yes

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ID. NO.	MATERIAL	LC50 (ppm)	LCLo (ppm)	NOTE	VP (psig) 70/115/130EF	NOTE	RTECS	HZ	ERG Guide #	ERG Evac. Table
UN 1752	Chloroacetyl chloride	660	--	C	24600		AO6475	B	59	Yes
^UN 2232	2-Chloroethanal (Chloroacetaldehyde)	160	--	A	24300		AB2450	B	55	Yes
-- --	p-Chlorophenyl isocyanate	18	--	A	300		NQ8575	B	--	No
UN 1580	Chloropicrin	--	50	R*h	26100		PB6300	B	56	Yes
UN 1583	Chloropicrin mixtures, n.o.s.	--	--	14	--		PB6320	+	56	Yes
^NA 9263	Chloropivaloyl chloride	126	--	A	15300		--	B	59	Yes
UN 1754	Chlorosulfonic acid	16	--	C	1320	25EC	FX5730	B	39	Yes
UN 1143	Crotonaldehyde, stabilized	93	--	R*	42100		GP9499	B	28	Yes
^UN 1889	Cyanogen bromide	(Deleted...mp 52EC)								
^UN 2488	Cyclohexyl isocyanate	15	--	A	2170		NQ8650	B	57	Yes
-- --	Diamylamines (mixed isomers)	132	--	A	6580		RZ9100	B	--	No
^NA 9264	3,5-Dichloro-2,4,6-trifluoropyridine	62	--	A	5400		--	B	55	Yes
UN 2521	Diketene, inhibited	551	--	A	10500		RQ8225	B	57	Yes
-- --	1,1-Dimethoxy-2-propene	678	--	A	112000		--	B	--	No
UN 2382	Dimethylhydrazine, symmetrical	680	--	C*	92000	25EC	MV2625	B	57	Yes
UN 1163	Dimethylhydrazine, unsymmetrical	504	--	R*	206000	25EC	MV2450	B	57	Yes
UN 1595	Dimethyl sulfate	17	--	R*	1000		WS8225	B	57	Yes
UN 2267	Dimethyl thiophosphoryl chloride	(Deleted...SVC:LC50 <10:1)								
-- --	Ethylacrolein	578	--	A	57900		--	B	--	No
UN 1182	Ethyl chloroformate	145	--	R	55300		LQ6125	B	28	Yes
^UN 2826	Ethyl chlorothioformate	138	--	C	10900		LQ6950	B	59	Yes
UN 1892	Ethyldichloroarsine	36	--	R*	2800		CH3500	B	55	Yes
UN 1135	Ethylene chlorohydrin	74	--	A	6450		KK0875	B	55	Yes
UN 1605	Ethylene dibromide	650	--	A	11300		KH9275	B	55	Yes
UN 1185	Ethyleneimine, inhibited	76	--	R*	217000		KX5075	A	30	Yes
UN 2481	Ethyl isocyanate	--	--	14	--		NQ8825	A	28	Yes
^NA 2927	Ethyl phosphonothioic dichloride, anhydrous	--	--	14	--	--	--	B	59	Yes
NA 2845	Ethyl phosphorous dichloride, anhydrous	--	62	R*4	--		TB2465	B	40	Yes

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^NA 2927	Ethyl phosphorodichloridate	43	--	A	2500		TD4390	B	59	Yes
-- --	Germanium tetrachloride	<1000	--	C	91800		LY5225	B	--	No
UN 2646	Hexachlorocyclopentadiene	3	--	R*	100		GY1225	B	55	Yes
^UN 1613	Hydrocyanic acid, aqueous solutions	--	--	14	--		MW6840	B	57	Yes
^UN 3294	Hydrogen cyanide, solution in alcohol	--	--	14	--		--	+	28	Yes
UN 1051	Hydrogen cyanide, stabilized	40	--	R*	842000		MW6825	A	13	Yes
^UN 1614	Hydrogen cyanide, stabilized (absorbed)	--	--	14	--		--	+	57	Yes
^UN 1052	Hydrogen fluoride, anhydrous	1300	--	CGA	1020000		MW7875	C	15	Yes
UN 1994	Iron pentacarbonyl	6	--	R?	30300		NO4900	A	57	Yes
^NA 2742	Isobutyl chloroformate	323	--	A	8850		--	B	57	Yes
UN 2486	Isobutyl isocyanate	--	--	14	--		NQ9208	A	57	Yes
UN 2290	Isophorone diisocyanate	(Deleted...SVC:LC50 <10:1)								
-- --	2-Isopropenyl-2-oxazoline	20	--	A	5530	25EC	--	B	--	No
UN 2407	Isopropyl chloroformate	299	--	A	36800		LQ6475	B	57	Yes
^UN 2483	Isopropyl isocyanate	--	--	14	--		NQ9230	A	28	Yes
^UN 3281	Metal carbonyls, n.o.s.	--	--	14	--		--	+	55	No
^UN 3079	Methacrylonitrile, inhibited	656	--	R*	84200		UD1400	B	28	No
^UN 3246	Methanesulfonyl chloride	205	--	A	2760		--	B	59	Yes
^UN 2605	Methoxymethyl isocyanate	--	--	14	--		NQ9240	A	57	Yes
^UN 1647	Methyl bromide and Ethylene dibromide mixtures, liquid	--	--	14	--		PA5300	B	55	Yes
UN 1238	Methyl chloroformate	88	--	R	135000		FG3675	A	28	Yes
UN 1239	Methyl chloromethyl ether	160	--	R*	210000		KN6650	A	57	Yes
^NA 1556	Methyldichloroarsine	167	--	R*m	11400		CH4375	B	55	Yes
UN 1244	Methylhydrazine	68	--	R*	50300		MV5600	A	57	Yes
^UN 2644	Methyl iodide	448	--	R*	414000		PA9450	B	55	Yes
UN 2480	Methyl isocyanate	22	--	A*	458000		NQ9450	A	30	Yes
^UN 2477	Methyl isothiocyanate	635	--	C	27400		PA9625	B	28	Yes
UN 2606	Methyl orthosilicate	200	--	C	13300		VV9800	B	57	Yes

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NA 9206	Methyl phosphonic dichloride	52	--	R*	4500		TA1840	B	39	Yes
^-- --	Methyl phosphonic difluoride	--	319	R*	47400	25EC	TA18407	B	--	No
^NA 2845	Methyl phosphonous dichloride	--	--	1	98800		TB2475	B	40	Yes
^UN 1251	Methyl vinyl ketone	5	--	C*	93400		EM9800	A	28	Yes
UN 1259	Nickel carbonyl	18	--	R*	422000		QR6300	A	57	Yes
UN 2032	Nitric acid, red fuming (NO ₂)	134	--	R*	55300		QU5900	B	44	Yes
^UN 3275	Nitriles, toxic, flammable, n.o.s.	--	--	14	--		--	+	57	Yes
^UN 3276	Nitriles, toxic, n.o.s.	--	--	14	--		--	+	55	No
UN 3023	tert-Octyl mercaptan	102	--	R*	5000		MJ1500	B	57	Yes
^UN 3280	Organoarsenic compound, n.o.s.	--	--	14	--		--	+	55	No
^UN 3279	Organophosphorus compound, toxic, flammable, n.o.s.	--	--	14	--		--	+	28	Yes
^UN 3278	Organophosphorus compound, toxic, n.o.s.	--	--	14	--		--	+	55	No
UN 1380	Pentaborane	12	--	R*	225000		RY8925	A	75	Yes
UN 1670	Perchloromethyl mercaptan	--	69	R*	32900		PB0370	B	55	Yes
^UN 1672	Phenylcarbylamine chloride	--	1	20000		e	NJ6700	B	55	Yes
^UN 2487	Phenyl isocyanate	16	--	A	2470		DA3675	B	55	Yes
UN 2337	Phenyl mercaptan	66	--	R*	1450		DC0525	B	57	Yes
UN 1810	Phosphorus oxychloride	96	--	R*	35500		TH4897	B	39	Yes
^UN 1809	Phosphorus trichloride	208	--	R*	125000		TH3675	B	39	Yes
^UN 2927	Poisonous liquids, corrosive, n.o.s.	--	--	-	--		--	+	59	Yes
^UN 2929	Poisonous liquids, flammable, n.o.s.	--	--	-	--		--	+	57	Yes
^UN 2810	Poisonous liquids, n.o.s.	--	--	-	--		--	+	55	Yes
^UN 3122	Poisonous liquids, oxidizing, n.o.s.	--	--	-	--		--	+	44	Yes
^UN 3123	Poisonous liquids which in contact with water emit flammable gases, n.o.s.	--	--	-	--		--	+	40	Yes
UN 2740	n-Propyl chloroformate	319	--	Rm	25500		LQ6830	B	57	Yes
^UN 2482	n-Propyl isocyanate	44	--	A	69700		NR0190	A	28	Yes
UN 1828	Sulfur chloride (mono)	327	--	C	8950		WS4300	B	39	Yes

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^-- --	Sulfur chloride and Carbon tetrachloride mixtures	760	--	A	7630		--	B	--	No
UN 1829	Sulfur trioxide, inhibited	347	--	C	98700		WT4830	B	39	Yes
^NA 1829	Sulfur trioxide, uninhibited	347	--	C	98700		WT4830	B	39	Yes
UN 1831	Sulfuric acid, fuming (=,>30% free SO ₃)	347	--	R	=,>3470		WS5605	B	39	Yes
^UN 1834	Sulfuryl chloride	131	--	C	142000		WT4870	A	39	Yes
-- --	N,N,N',N'-Tetramethyl-1,6-hexanediamine	298	--	A	20400	38EC	MO1370	B	--	No
-- --	Tetramethyltin	--	349	R?m	118000		WH8630	B	--	No
UN 1510	Tetranitromethane	36	--	R*	11000		PB4025	B	47	Yes
^UN 1836	Thionyl chloride	(Deleted...LC50 >1000 ppm)								
^UN 2474	Thiophosgene	--	--	1	150000		XN2450	B	55	Yes
UN 1838	Titanium tetrachloride	119	--	R*	12800		XR1925	B	39	Yes
^UN 3289	Toxic liquid, corrosive, inorganic, n.o.s.	--	--	-	--		--	+	59	Yes
^UN 2927	Toxic liquid, corrosive, organic, n.o.s.	--	--	-	--		--	+	59	Yes
^UN 2929	Toxic liquid, flammable, organic, n.o.s.	--	--	-	--		--	+	57	Yes
^UN 3287	Toxic liquid, inorganic, n.o.s.	--	--	-	--		--	+	55	No
^UN 2810	Toxic liquid, organic, n.o.s.	--	--	-	--		--	+	55	Yes
^UN 3122	Toxic liquid, oxidizing, n.o.s.	--	--	-	--		--	+	44	Yes
^UN 3123	Toxic liquid, water-reactive, n.o.s.	--	--	-	--		--	+	40	Yes
^UN 2442	Trichloroacetyl chloride	128	--	R*	22700		A07140	B	59	Yes
^-- --	3-Trifluoromethylphenyl isocyanate	43	--	A	1970		NR0200	B	--	No
NA 9269	Trimethoxysilane	250	--	R*	75800		VV6750	B	57	Yes
UN 2438	Trimethylacetyl chloride	507	--	C	35500		AO7200	B	29	Yes

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KEY:

- ^ Indicates changes to LHM-PBI (Rev/2).
- 1 These materials are considered to be poisonous by inhalation although no inhalation data are available.
- 4 These materials are considered to be poisonous by inhalation although no SVC data are available.
- 14 These materials are considered to be poisonous by inhalation although no inhalation data or SVC data are available.
- A Data obtained from Special Approvals.
- C Data obtained by GEC.
- D Data supplied by the Dutch.
- R Data obtained from the RTECS.
- S Data obtained by CWS.
- e Estimated.
- h Test involved humans.
- m Test involved mice.
- * LC value converted to 1 hour.
- ? Time not specified.
- + Use LC50 and SVC of the material to determine the HZ.
- [^]CGA Data from Compressed Gas Association, Inc. publication CGA P-20--1995.
- [^]ERG 93 1993 Emergency Response Guidebook (DOT P 5800.6).
- HZ Hazard Zone or Zone.
- PIH Poison Inhalation Hazard.
- RTECS Registry of Toxic Effects of Chemical Substances (NIOSH).
- SVC Saturated vapor concentration at 20°C, unless otherwise noted.
- n.o.s. Not otherwise specified.

Data to support or refute materials identified on this list to be poisonous by inhalation or data to support addition of materials to this list should be submitted to:

Dr. George E. Cushmac
RSPA (DHM-21)
U.S. Department of Transportation
Washington, DC 20590-0001

LIST OF GASEOUS HAZARDOUS MATERIALS - POISONOUS BY INHALATION' (GHM-PBI) (Rev/4)
(Also known as the "List of PIH Gases")

September 25, 2000
(Supersedes Rev/3; 6/1/95)

ID. NO.	MATERIAL	LC50 (ppm)	LCLo (ppm)	NOTE	VP (psig) 70/115/130EF	NOTE	RTECS	HZ	ERG Guide #	ERG Evac. Table
^UN 1005	Ammonia, anhydrous, liquefied	4000	--	R*	114/250/315	M	B00875	D	15	Yes
^UN 1005	Ammonia, anhydrous, liquefied	7338	--	CGA	(CGA LC50 data indicate this material is not a GHM-PBI)					
^UN 3318	Ammonia solution	--	--	-	---/---/---	-	--	D	--	No
^UN 1005	Ammonia solutions	--	--	-	---/---/---	-	--	D	15	Yes
UN 2188	Arsine	20	--	R*	205/348/406	ME	CG6475	A	18	Yes
^UN 1741	Boron trichloride	2541	--	CGA	4/29/40	M	ED1925	C	15	Yes
^UN 1008	Boron trifluoride	806	--	CGA*	---/---/---	-	ED2275	B	15	Yes
^UN 2901	Bromine chloride	290	--	CGAe	---/---/---	-	EF9220	B	20	Yes
^UN 1016	Carbon monoxide	3760	--	CGA*	---/---/---	-	FG3500	D	18	Yes
^NA 9202	Carbon monoxide, refrigerated liquid	3760	--	CGA*	---/---/---	-	FG3500	D	67	Yes
^UN 2600	Carbon monoxide and Hydrogen mixture	--	--	1	---/---/---	-	FG3582	D	18	Yes
UN 2417	Carbonyl fluoride	360	--	R	800/---/---	M	FG6125	B	15	Yes
^UN 2204	Carbonyl sulfide	1700	--	CGA*m	160/286/343	M	FG6400	C	18	Yes
UN 1017	Chlorine	293	--	R	85/173/216	M	FO2100	B	20	Yes
UN 2548	Chlorine pentafluoride	122	--	R	36/94/120	E	FO2975	A	44	Yes
^UN 1749	Chlorine trifluoride	299	--	CGA	7/38/53	M	FO2800	B	44	Yes
UN 1581	Chloropicrin and Methyl bromide mixtures	--	200	Rh	---/---/---	-	PB6325	B	55	Yes
^UN 1582	Chloropicrin and Methyl chloride mixtures	--	--	1	---/---/---	-	PB6330	B	18	Yes
-- --	Chlorotrifluoropyridine	(Deleted...LC50 >5000 ppm)								
UN 1023	Coal gas	--	--	1	---/---/---	-	MW3860	C	18	Yes
^UN 3304	Compressed gas, toxic, corrosive, n.o.s.	--	--	-	---/---/---	-	--	#	--	No
^UN 3305	Compressed gas, toxic, flammable, corrosive, n.o.s.	--	--	-	---/---/---	-	--	#	--	No

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^UN 3306	Compressed gas, toxic, oxidizing, corrosive, n.o.s.	--	--	-	---/---/---	-	--	#	--	No
^UN 3303	Compressed gas, toxic, oxidizing, n.o.s.	--	--	-	---/---/---	-	--	#	--	No
^UN 1953	Compressed gases, toxic, flammable, n.o.s.	--	--	-	---/---/---	-	--	#	18	Yes
^UN 1955	Compressed gases, toxic, n.o.s.	--	--	-	---/---/---	-	--	#	15	Yes
^UN 1953	Compressed or Liquefied gases, flammable, toxic, n.o.s.	--	--	-	---/---/---	-	--	#	18	Yes
^UN 1955	Compressed or Liquefied gases, toxic, n.o.s.	--	--	-	---/---/---	-	--	#	15	Yes
^UN 1589	Cyanogen chloride, inhibited	80	--	CGA*	20/---/---	M	GT2275	A	15	Yes
^UN 1026	Cyanogen, liquefied	350	--	R	60/143/183	M	GT1925	B	18	Yes
UN 1911	Diborane	80	--	R*	---/---/---	-	HQ9275	A	18	Yes
^-- --	Diborane mixtures	--	--	-	---/---/---	-	--	#	--	No
^UN 2189	Dichlorosilane	314	--	CGA	10/35/48	M	VV3040	B	19	Yes
^UN 1067	Dinitrogen tetroxide (Nitrogen dioxide), liquefied	115	--	CGA	0/30/45	M	QX1575	A	20	Yes
^UN 1040	Ethylene oxide or Ethylene oxide with nitrogen	4350	--	CGA	7/35/49	M	KX2450	D	69	Yes
^UN 1041	Ethylene oxide and Carbon dioxide mixtures	(Deleted...LC50 >5000 ppm)								
^UN 3300	Ethylene oxide and Carbon dioxide mixtures	--	--	-	---/---/---	-	--	D	18	Yes
UN 1045	Flourine, compressed	185	--	R	---/---/---	-	LM6475	A	20	Yes
^NA 9192	Fluorine, refrigerated liquid	185	--	R	---/---/---	-	LM6475	A	25	Yes
NA 9035	Gas identification set	--	--	1	---/---/---	-	--	#	15	No
^UN 2192	Germane	622	--	CGA*	595/---/---	E	LY4900	B	18	Yes
^UN 1612	Hexaethyl tetraphosphate and compressed gas mixtures	--	--	1	---/---/---	-	XF1580	C	15	Yes
^UN 2420	Hexafluoroacetone	470	--	CGA*	73/160/206	M	UC2450	B	15	Yes
^UN 1048	Hydrogen bromide, anhydrous	2860	--	CGA	320/560/667	ME	MW3850	C	15	Yes
^UN 1050	Hydrogen chloride, anhydrous	2810	--	C	613/---/---	M	MW9610	C	15	Yes

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^UN 2186	Hydrogen chloride, refrigerated liquid	2810	--	C	613/---/---	M	MW9610	C	15	Yes
UN 1052	Hydrogen fluoride, anhydrous	(See List of PIH Liquids)								
^UN 2197	Hydrogen iodide, anhydrous	2860	--	CGAe	95/190/225	M	MW3760	C	15	Yes
^UN 2202	Hydrogen selenide, anhydrous	--	6	R	125/195/305	ME	MX1050	A	13	Yes
UN 1053	Hydrogen sulfide, liquefied	712	--	CGA	252/450/545	M	MX1225	B	13	Yes
^UN 1967	Insecticide gases, toxic, n.o.s.	--	--	1	---/---/---	-	--	C	15	Yes
^UN 3308	Liquefied gas, toxic, corrosive, n.o.s.	--	--	-	---/---/---	-	--	#	--	No
^UN 3309	Liquefied gas, toxic, flammable, corrosive, n.o.s.	--	--	-	---/---/---	-	--	#	--	No
^UN 3160	Liquefied gas, toxic, flammable, n.o.s.	--	--	-	---/---/---	-	--	#	18	Yes
^UN 3162	Liquefied gas, toxic, n.o.s.	--	--	-	---/---/---	-	--	#	15	Yes
^UN 3310	Liquefied gas, toxic, oxidizing, corrosive, n.o.s.	--	--	-	---/---/---	-	--	#	--	No
^UN 3307	Liquefied gas, toxic, oxidizing, n.o.s.	--	--	-	---/---/---	-	--	#	--	No
^UN 1061	Methylamine, anhydrous	(Deleted...LC50 >5000 ppm)								
UN 1062	Methyl bromide	1007	--	R*	13/44/59	M	PA4900	C	55	Yes
^UN 2534	Methylchlorosilane	600	--	CGAe	---/---/---	-	VV2150	B	18	Yes
^UN 1064	Methyl mercaptan	1350	--	R*	15/47/62	M	PB4375	C	13	Yes
^UN 1660	Nitric oxide	115	--	CGAe	---/---/---	-	QX0525	A	20	Yes
^UN 1975	Nitric oxide and Dinitrogen tetroxide mixtures (Nitric oxide and Nitrogen dioxide mixtures)	115	--	CGAe	---/---/---	-	QX0700	A	20	Yes
^- --	Nitrogen fluoride oxide	48	--	R*	---/---/---	-	QX0350	A	--	No
UN 2451	Nitrogen trifluoride	(Deleted...LC50 >5000 ppm)								
UN 2421	Nitrogen trioxide	--	--	1	---/---/---	-	QX1960	A	20	Yes
UN 1069	Nitrosyl chloride	--	--	1	27/77/102	M	QZ7883	C	16	Yes

LIST OF PIH GASES (Cont.) (Rev/4)

September 25, 2000

ID. NO.	MATERIAL	LC50 (ppm)	LCLo (ppm)	NOTE	VP (psig) 70/115/130EF	NOTE	RTECS	HZ	ERG Guide #	ERG Evac. Table
^UN 1071	Oil gas	--	--	1	---/---/---	-	--	#	18	Yes
^NA 1955	Organic phosphate, Organic phosphate compound, or Organic phosphorus compound, mixed with compressed gas	--	--	1	---/---/---	-	--	C	15	Yes
UN 2190	Oxygen difluoride	2.6	--	CGA	---/---/---	-	RS2100	A	20	Yes
^NA 1967	Parathion and compressed gas mixtures	--	--	1	---/---/---	-	TF5075	C	15	Yes
^UN 3083	Perchloryl fluoride	770	--	CGA*	139/---/---	M	SD1925	B	20	Yes
^UN 1076	Phosgene	5	--	CGA*	11/38/52	M	SY5600	A	15	Yes
^UN 2199	Phosphine	20	--	CGA*	593/827/---	ME	SY7525	A	18	Yes
^UN 2198	Phosphorus pentafluoride	260	--	CGAe	400/---/---	M	TH4070	B	15	Yes
^-- --	Phosphorus trifluoride	433	--	CGA	---/---/---	-	TH3850	B	--	No
^UN 2194	Selenium hexafluoride	50	--	CGA*	---/---/---	-	VS9450	A	15	Yes
^UN 1859	Silicon tetrafluoride	450	--	CGAm	---/---/---	-	VW2327	B	16	Yes
^UN 2676	Stibine	20	--	CGAe	---/---/---	-	WJ0700	A	18	Yes
^-- --	Sulfur chloride pentafluoride	--	100	R	---/---/---	-	WS4375	A	--	No
UN 1079	Sulfur dioxide, liquefied	2520	--	R*	35/93/122	-	WS4550	C	16	Yes
^UN 2418	Sulfur tetrafluoride	40	--	CGA	---/---/---	-	WT4800	A	15	Yes
UN 2191	Sulfuryl fluoride	3020	--	R	217/410/500	ME	WT5075	D	15	Yes
^UN 2195	Tellurium hexafluoride	25	--	CGA*	---/---/---	-	WY2800	A	15	
^UN1703	Tetraethyl dithiopyrophosphate and gases, in solution or Tetraethyl dithiopyrophosphate and gases, mixtures	--	--	1	---/---/---	-	XN4377	#	15	Yes
^UN 1705	Tetraethyl pyrophosphate and compressed gas mixtures	--	--	1	---/---/---	-	UX7000	#	15	Yes
^-- --	Tetrafluorohydrazine	--	100	R*	---/---/---	-	QX0175	A	--	No
^UN 3057	Trifluoroacetyl chloride	<1000	--	C	---/---/---	-	--	B	16	Yes
^UN 1082	Trifluorochloroethylene, inhibited	2000	--	R*	66/143/179	M	KV0505	C	18	Yes

<i>ID. NO.</i>	<i>MATERIAL</i>	<i>LC50 (ppm)</i>	<i>LCLo (ppm)</i>	<i>NOTE</i>	<i>VP (psig) 70/115/130EF</i>	<i>NOTE</i>	<i>RTECS</i>	<i>HZ</i>	<i>ERG Guide #</i>	<i>ERG Evac. Table</i>
UN 2196	Tungsten hexafluoride	217	--	CGAe	---/23/34	E	YO7720	B	15	Yes

KEY:

^ Indicates changes to GHM-PBI (Rev/2).

1 These materials are considered to be poisonous by inhalation although no inhalation data are available.

A Data obtained from Special Approvals.

C Data obtained by GEC.

E Data obtained from the Elsevier Gas Encyclopedia.

M Data obtained from the Matheson Gas Data Book.

R Data obtained from the RTECS.

e Estimated.

h Test involved humans.

m Test involved mice.

* LC50 value converted to 1 hour.

Use LC50 of the material to determine the HZ.

[^]CGA Data supplied by the Compressed Gas Association, Inc. (CGA P-20--1995).

[^]ERG 93 1993 Emergency Response Guidebook (DOT P 5800.6).

HZ Hazard Zone or Zone.

[^]PIH Poison Inhalation Hazard.

RTECS Registry of Toxic Effects of Chemical Substances (NIOSH).

VP Vapor pressure in psig at 70°F, 115°F, and 130°F, respectively.

[^]n.o.s. Not otherwise specified.

[^]psig Pounds per square inch gauge.

' Data to support or refute materials on this list identified to be poisonous by inhalation or data to support addition of materials to this list should be submitted to:

Dr. George E. Cushmac
RSPA (DHM-21)
U.S. Department of Transportation
Washington, DC 20590-0001